

1)

```
create table company(car_id varchar(80),car_name  
varchar(80),car_company_name varchar(80),owner_name varchar(80),car_price int,car_manu_year  
int);
```

```
insert into company(car_id,car_name,car_company_name,owner_name,car_price,car_manu_year)  
values('c101','i_10','hyundai','vijay_shankar_sharma',54500,"2008-01-25");
```

```
insert into company(car_id,car_name,car_company_name,owner_name,car_price,car_manu_year)  
values('c102','i_20','hyundai','hinal_manav_desai',678000,"2010-06-20");
```

```
insert into company(car_id,car_name,car_company_name,owner_name,car_price,car_manu_year)  
values('c03','city','honda','ravi_kirit_verma',150000,"2011-11-06");
```

```
insert into company(car_id,car_name,car_company_name,owner_name,car_price,car_manu_year)  
values('c104','seltos','kia','vikas_jinal_seth',250000,"2020-10-25");
```

```
insert into company(car_id,car_name,car_company_name,owner_name,car_price,car_manu_year)  
values('c105','hector','MG','nirav_akhil_navani',350000,"2021-01-14");
```

```
insert into company(car_id,car_name,car_company_name,owner_name,car_price,car_manu_year)  
values('c107','G10','BMW','gaurav_manish_verma',1023000,"2019-08-16");
```

```
insert into company(car_id,car_name,car_company_name,owner_name,car_price,car_manu_year)  
values('c108','baleno','suzuki','girish_naman_sethi',780000,"2020-09-23");
```

```
insert into company(car_id,car_name,car_company_name,owner_name,car_price,car_manu_year)  
values('c109','kreta','hyundai','khushboo_sahani',160000,"2021-02-13");
```

```
select * from company;
```

```
select car_id,car_name,car_price from company;
```

```
select owner_name from company;
```

```
select * from company where car_company_name = 'hyundai';
```

```
select car_name from company where car_company_name = 'BMW';
```

```
select owner_name,car_name from company where car_company_name = 'hyundai';
```

```
select * from company where strftime('%Y',car_manu_year) = '2020';
```

```
select car_id,car_name,car_price from company where car_price>150000;
```

2) _____


```
create table userview(part_num int,description varchar(80),QOH int,recorder_point int,EOQ  
int,unit_cost int,ven_num int,ven_name varchar(80),ven_address varchar(80),tel int);
```

```
insert into  
userview(part_num,description,QOH,recorder_point,EOQ,unit_cost,ven_num,ven_name,ven_addre  
ss,tel)values(132,'bolt',100,50,1000,1.50,987,'ABC_CO.','654Elmst',55555498);
```

```
insert into  
userview(part_num,description,QOH,recorder_point,EOQ,unit_cost,ven_num,ven_name,ven_addre  
ss,tel)values(143,'screw',59,10,100,1.75,987,'ABC_CO.','654Elmst',55555498);
```

```
insert into  
userview(part_num,description,QOH,recorder_point,EOQ,unit_cost,ven_num,ven_name,ven_addre  
ss,tel)values(760,'nut',80,20,500,2.00,742,'XYZ_CO.','510Smit',5558921);
```

```
insert into  
userview(part_num,description,QOH,recorder_point,EOQ,unit_cost,ven_num,ven_name,ven_addre  
ss,tel)values(982,'nail',100,50,800,1.00,987,'ABC_CO.','654Elmst',5555498);
```

```
select * from userview;
```

```
select part_num,description from userview;
```

```
select part_num,unit_cost from userview;
```

```
select * from userview where ven_num = 987;
```

```
select DISTINCT ven_num from userview;
```

```
select part_num,ven_address from userview where ven_name = 'ABC_CO.';
```

```
SELECT * FROM userview where ven_name IN('ABC_CO.','XYZ_CO.');
```

```
SELECT part_num,description from userview where description LIKE 'B%';
```

```
SELECT part_num,description from userview where description LIKE '%T';
```

```
SELECT part_num, description FROM userview WHERE description LIKE '_a%I';
```

```
select part_num,QOH FROM userview where QOH>80;
```

```
select * from userview where recorder_point<20;
```

```
select * from userview where unit_cost>1.50;
```

3) _____

(1)

```
create table charity(p_id int,lastname varchar(80),firstname varchar(80),address varchar(80),city
varchar(80),contribution int);
```

```
insert into
charity(p_id,lastname,firstname,address,city,contribution)values(1,'bindra','jaspreet','5B,gomtinagar'
,'lucknow',3500.50);
```

```
insert into
charity(p_id,lastname,firstname,address,city,contribution)values(2,'rana','monica','21A,bandra','mu
mbai',2768.00);
```

```
insert into
charity(p_id,lastname,firstname,address,city,contribution)values(3,'singh','jatinder','8,punjabibagh','
delhi',2000.50);
```

```
insert into
charity(p_id,lastname,firstname,address,city,contribution)values(4,'arora','satinder','k/1,sherepunjab
colony','mumbai',1900.00);
```

```
insert into charity(p_id,lastname,firstname,address,city,contribution)values(5,'krishnan','vineeta','A-
75,adarshnagar',null,null);
```

```
select * from charity;
```

```
select firstname from charity;
```

```
select lastname from charity where city = 'mumbai';
```

```
select p_id,lastname,firstname from charity;
```

```
SELECT firstname || ' ' || lastname AS full_name
```

```
FROM charity;
```

```
SELECT address,p_id from charity;
```

```
select city,p_id from charity;
```

```
select lastname,firstname from charity where firstname LIKE '%at%';
```

```
select lastname from charity where lastname LIKE '%a%';
```

```
select lastname,firstname from charity where firstname like '%a';
```

(2)

```
create table loan(ACCNO int,cust_name varchar(80),loan_amount int,instalments int,Int_rate  
varchar(80),start_date int,interest varchar(80));
```

```
insert into  
loan(ACCNO,cust_name,loan_amount,instalments,Int_rate,start_date,interest)values(1,'R.K.Gupta',3  
00000,36,12.00,"2009-07-19",null);
```

```
insert into  
loan(ACCNO,cust_name,loan_amount,instalments,Int_rate,start_date,interest)values(2,'S.P.Sharma',  
500000,48,10.00,"2008-03-22",null);
```

```
insert into  
loan(ACCNO,cust_name,loan_amount,instalments,Int_rate,start_date,interest)values(3,'K.P.Jain',300  
000,36,'null',"2007-03-08",null);
```

```
insert into  
loan(ACCNO,cust_name,loan_amount,instalments,Int_rate,start_date,interest)values(4,'M.P.Yadav',8  
00000,60,10.00,"2008-12-06",null);
```

```
insert into  
loan(ACCNO,cust_name,loan_amount,instalments,Int_rate,start_date,interest)values(5,'S.P.Sinha',20  
0000,36,12.50,"2010-01-03",null);
```

```
insert into  
loan(ACCNO,cust_name,loan_amount,instalments,Int_rate,start_date,interest)values(6,'P.Sharma',70  
0000,60,12.50,"2008-06-05",null);
```

```
insert into  
loan(ACCNO,cust_name,loan_amount,instalments,Int_rate,start_date,interest)values(7,'K.S.Dhall',50  
0000,48,'null',"2008-03-05",null);
```

```
select * from loan;
```

```
SELECT AccNo, Cust_Name, Loan_Amount FROM Loan;
```

```
SELECT * FROM Loan WHERE Instalments <=40;
```

```
SELECT AccNo, Loan_Amount FROM Loan WHERE Start_Date < '2009-04-01';
```

```
SELECT Int_Rate FROM Loan WHERE Start_Date > '2009-04-01';
```

```
SELECT * FROM Loan WHERE Int_Rate IS NULL;
```

```
SELECT * FROM Loan WHERE Int_Rate IS NOT NULL;
```

```
SELECT DISTINCT Loan_Amount FROM Loan;
```

```
SELECT DISTINCT Instalments FROM Loan;
```

```
SELECT * FROM Loan WHERE Start_Date > '2008-12-31' AND Instalments > 36;
```

```

SELECT Cust_Name, Loan_Amount FROM Loan WHERE Instalments <> 36;

SELECT Cust_Name, Loan_Amount FROM Loan WHERE Loan_Amount < 500000 OR Int_Rate > 12;

SELECT * FROM Loan WHERE Loan_Amount BETWEEN 400000 AND 500000;

SELECT * FROM Loan WHERE Int_Rate BETWEEN 11 AND 12;

SELECT Cust_Name, Loan_Amount FROM Loan WHERE Instalments IN (24, 36, 48);

SELECT AccNo, Cust_Name, Loan_Amount FROM Loan WHERE Cust_Name LIKE '%Sharma';

SELECT AccNo, Cust_Name, Loan_Amount FROM Loan WHERE Cust_Name LIKE '%a';

SELECT AccNo, Cust_Name, Loan_Amount FROM Loan WHERE Cust_Name LIKE '%a%';

SELECT AccNo, Cust_Name, Loan_Amount FROM Loan WHERE Cust_Name NOT LIKE '%P%';

SELECT AccNo, Cust_Name, Loan_Amount FROM Loan WHERE Cust_Name NOT LIKE '%P%';

SELECT AccNo, Cust_Name, Loan_Amount FROM Loan WHERE Cust_Name LIKE '%a_';

UPDATE Loan SET Int_Rate = 11.50 WHERE Int_Rate IS NULL;

SELECT * FROM loan;

UPDATE Loan SET Int_Rate = Int_Rate + 0.5 WHERE Loan_Amount > 400000;

SELECT * FROM loan;

UPDATE Loan SET Interest = (Loan_Amount * Int_Rate * Instalments) / 12 * 100;

SELECT * FROM loan;

DELETE FROM Loan WHERE Cust_Name = 'K.P. Jain';

SELECT * FROM loan;

ALTER TABLE Loan ADD column category CHAR(1);

SELECT * FROM loan;

CREATE VIEW Loan_View AS SELECT AccNo, Cust_Name, Instalments FROM Loan;

SELECT * FROM loan;

SELECT * FROM Loan_View;

DROP VIEW Loan_View;

SELECT * FROM loan;

```

4) _____

```

CREATE TABLE employee (
    Ecode INT PRIMARY KEY,
    Ename VARCHAR(50) NOT NULL,
    depcde INT,
    Salary INT,
    age INT,
    joindate DATE UNIQUE,
    dept_name_1 VARCHAR(50)
);

INSERT INTO employee (Ecode, Ename, depcde, Salary, age, joindate)
VALUES
(15, 'sameer_sharma',123,75000,39,'2007-04-01'),
(21, 'raguvindra_k',101,86000,29,'2005-11-11'),
(34, 'rama_gupta',119,52500,43,'2010-03-03'),
(46, 'c_r_menon',103,67000,38,'2004-07-12'),
(77, 'mohan_kumar',103,63000,55,'2000-11-25'),
(81, 'rajesh_kumar',119,74500,48,'2008-12-11'),
(89, 'sanjeev_p',101, 92600,54,'2009-01-12'),
(93, 'pragya_jain',123, 32000,29,'2006-08-05');

SELECT * FROM employee;

SELECT Ecode, Ename, Salary FROM employee;

SELECT * FROM employee WHERE Salary > 60000;

SELECT Ename, Salary FROM employee WHERE Age < 35;

SELECT DISTINCT depcde FROM employee;

SELECT COUNT(*) AS total_employees FROM employee;

SELECT * FROM employee WHERE Depcde = 103 AND Salary > 65000;

SELECT * FROM employee WHERE Age > 35 OR Salary < 60000;

SELECT * FROM employee WHERE Age BETWEEN 25 AND 35;

SELECT Ename FROM employee WHERE Depcde IN (101, 103, 123);

```

```
SELECT Ename, Depcde FROM employee WHERE Ename LIKE '%Sharma';
SELECT Ename, Depcde FROM employee WHERE Ename LIKE 'R%j%';
SELECT Ecode, Age FROM employee WHERE Ename NOT LIKE '%j%';
SELECT Ename, Salary FROM employee ORDER BY Ename ASC;
SELECT Ename, Age FROM employee ORDER BY Ename DESC;
UPDATE employee SET Salary = Salary * 1.1 WHERE Age > 50;
select * from employee;
DELETE FROM employee WHERE Depcde = 101;
SELECT * FROM employee;
DELETE FROM employee WHERE Ename = 'Rajesh Kumar';
SELECT * FROM employee;
ALTER TABLE employee ADD dept_name_2 VARCHAR(50);
SELECT * FROM employee;
UPDATE employee SET dept_name_1 = 'IT' WHERE Depcde = 123;
SELECT MAX(Salary) FROM employee;
SELECT MIN(Age) FROM employee;
SELECT AVG(Salary) FROM employee;
SELECT SUM(Salary) FROM employee;
CREATE VIEW emp AS SELECT Ecode, Ename, Salary FROM employee;
SELECT * FROM emp;
DELETE FROM employee WHERE Age = 29;
UPDATE employee SET dept_name_1 = 'Sales' WHERE Depcde = 119;
ALTER TABLE employee DROP COLUMN dept_name_1;
ALTER TABLE employee DROP COLUMN dept_name_2;
ALTER TABLE employee ADD dept_name VARCHAR(50) DEFAULT 'Admin';
INSERT INTO employee (Ecode, Ename, Salary)
VALUES
(11, 'Test Employee', 60000),
(12, 'Another Test', 70000);
SELECT * FROM employee;
```

5)(1)

```
create table employee(Emp_No varchar(10) PRIMARY KEY,First_Name varchar(20),Last_Name
varchar(20),Start_Date varchar(80) DEFAULT 'current_date',End_Date varchar(80),Salary int,City
varchar(30),JOB varchar(30),Depno int);
```

```
insert into employee values("01","Jason","Martin","1996-07-25","2006-07-
25","123456","Toronto","Programmer","10");
```

```
insert into employee values("02","Alsion","Matews","1976-03-21","1986-02-
21","2234.78","Vancouver","Tester","15");
```

```
insert into employee values("03","James","Smith","1978-12-12","1990-03-
15","2324.78","Vancouver","Tester","20");
```

```
insert into employee values("04","Celia","Rice","1982-10-24","1999-04-
21","3334.78","Vancouver","Manager","30");
```

```
insert into employee values("05","Robert","Black","1984-01-15","1998-08-
08","4334.78","Vancouver","Tester","20");
```

```
insert into employee values("06","Linda","Green","1987-07-30","1996-01-04","5334.78","New-
York","Tester","10");
```

```
insert into employee values("07","David","Larry","1990-12-31","1998-02-21","6334.78","New-
York","Manager","15");
```

```
insert into employee values("08","James","Cat","1996-09-17","2002-04-
15","7334.78","Vancouver","Tester","22");
```

```
create table employee2(Depno varchar(20) PRIMARY KEY,DNAME varchar(20),DLoaction
varchar(20));
```

```
insert into employee2 values("10","Clerk","Ahmedabad");
```

```
insert into employee2 values("15","Salesman","Vadodara");
```

```
insert into employee2 values("20","Analyst","Surat");
```

```
insert into employee2 values("30","Electrical","Ahmedabad");
```

```
insert into employee2 values("14","Civil","Valasad");
```

```
insert into employee2 values("22","Mechanical","Vapi");
```

```
insert into employee2 values("28","IT","Vapi");
```

```
insert into employee2 values("27","Chemical","Surat");
```



```

ALTER TABLE employee ADD COLUMN manager varchar(25);
ALTER TABLE employee ADD COLUMN commission int;
select * from employee;
select first_name,last_name,job from employee where depno=20;
select * from employee where depno=30;
select first_name,last_name from employee where emp_no>5;
select first_name,last_name from employee where depno <> 10;
select count(emp_no) from employee;
select first_name,last_name,job from employee where depno in (select depno from employee2
where dloaction="surat");
select first_name,last_name from employee where depno=20 and depno in (select depno from
employee2 where dname not in('clerk','salesman','analyst'));
select first_name,job,salary from employee order by job;
select emp_no,first_name from employee where job="manager";
select sum(salary) from employee;
select first_name,salary from employee where salary=(select min(salary) from employee);
select job,salary from employee where salary=(select min(salary) from employee where
job='Manager');
select first_name,job from employee where salary>2000;
select first_name,(salary/12) as 'monthly_sal' from employee;
select job,count(emp_no) from employee group by job order by depno desc;
select * from employee where salary between 1000 and 5000 ;
select avg(salary) from employee;
select job,salary from employee where salary=(select min(salary) from employee);
select count(emp_no),count(distinct(job)) from employee;
select first_name,salary from employee where depno=10;
select depno as department_no, dname as department_name from employee2;
select min(salary) from employee;
select first_name from employee order by first_name limit 1;
select first_name,dname,dloaction from employee,employee2 where
employee.depno=employee2.depno;
select job from employee where depno in(10,20);

```

[illegible]


```
insert into student values("A04","Abhishek","Baroda",8521479630,"2006-06-14");
insert into student values("A05","Raachit","Ahmedabad",1237894560,"2005-08-16");
```

```
select Name from student where Birthdate<"2003-01-21" and city="Nepal";
select Name,Rollno from student where city in('Patna','Delhi','Baroda');
update student set Mobilen=9714115911 where Rollno="A05";
select * from student;
truncate table student;
select Birthdate from student where Name like "__a__i%";
```

---->subquery [table_3]

```
create table emp(Emp_id varchar(20) primary key,Emp_Name varchar(30),Emp_Address
varchar(60),Emp_Salary int not null,Emp_Hire_Date date);
```

```
insert into emp values("E1","Rohan Kuamr","Ahmedabad",25000,"1998-09-23");
insert into emp values("E2","Roshnai Patel","Kolkata",15000,"1995-12-01");
insert into emp values("E3","Vijay Thalapathy","Cheenai",24000,"1994-11-29");
insert into emp values("E4","Muskesh Bakshy","Mumbai",9000,"1998-05-21");
insert into emp values("E5","Mahesh Babu","Kolkata",22000,"1997-04-02");
```

```
create table Dep(Dep_id varchar(20) primary key,Dep_Name varchar(30),Dep_Location
varchar(30),Dep_Head_Name varchar(30),Emp_id varchar(20));
```

```
insert into Dep values("D111","Research","Ahmedabad","Michael","E1");
insert into Dep values("D112","Managment","Mumbai","Rakesh","E2");
insert into Dep values("D113","A/C","Surat","Vishal","E3");
insert into Dep values("D114","Testing","Kolkata","Jayesh","E4");
insert into Dep values("D115","Programer","Cheenai","Rohil","E5");
```

```
select dep_name from dep where emp_id=(select emp_id from emp where emp_address='mumbai'
and emp_salary<10000);
```

```
select emp_name from emp where emp_id = (select emp_id from dep where dep_loaction="kolkata" or dep_id="D114");
```

```
select emp_name from emp where emp_salary=(select max(emp_salary) from emp);
```

```
select emp_name from emp where emp_salary order by emp_salary desc limit 1,1;
```

```
select * from Dep union select * from emp;
```

```
select * from Dep union all select * from emp;
```

```
select * from Dep intersect select * from emp;
```

```
select * from Dep join emp;
```

```
select * from Dep cross join emp;
```

```
select * from Dep natural join emp;
```

```
select dep_loaction from dep where emp_id=(select emp_id from emp where emp_salary=(select min(emp_salary)from emp));
```

```
select emp_salary from emp where emp_id in (select emp_id from dep where dep_head_name="michael" or dep_loaction like "%i%");
```

```
select dep_name from dep where emp_id in (select emp_id from emp where emp_hire_date like "1998%");
```

```
update emp set emp_salary=emp_salary+(emp_salary*0.05) where emp_id=(select emp_id from dep where dep_head_name="Roshnai patel");
```

```
select * from emp;
```